



Docket No.: 12810-00136-US

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Petra Cirpus et al.

Application No.: 10/552,127

:: 10/552,127 Confirmation No.: N/A

Filed: October 5,2005 Art Unit: N/A

For: Δ -4 DESATURASES FROM EUGLENA

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OILS CONTAINING PUFA

Examiner: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

Of the documents listed on the attached SB/08 are documents cited in the International Search Report during the prosecution of international application no. PCT/EP2004/03628, which corresponds to the above referenced application, and in accordance with 37 CFR 1.97(b)(3), Applicants hereby submit these documents for the Examiner's consideration. A copy of the

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International Search Report is attached. Applicants enclose herewith a copy of each reference cited on the PTO/SB/08.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

This Information Disclosure Statement is being submitted within three months of the U.S. filing date. Accordingly, Applicants believe no fee is due with this response. However, if a fee is due, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 12810-00136-US. A duplicate copy of this paper is enclosed.

Dated: NOV. 16, 2005

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Respectfully submitted,

Hui-Ju Wu

Registration No.: 57,209

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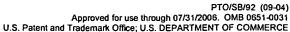
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Application No. (if known): 10/552,127

Attorney Docket No.: 12810-00136-US

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Transmittal Form (1 page)

IDS (citation) by Applicant (38 References) (2 pages)

Copies of 37 References

Supplemental Information Disclosure Statement (2 pages) Copy of International Search Report (PCT/ISA/210) (5 pages)

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PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031

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		Application		10/552,127		
TRANSMITT	AL	Filing Date		October 5, 2005		
FORM		First Named	Inventor	Petra Cirpus		
(to be used for all correspondence afte	r initial filing)	Art Unit		N/A		
·	. ,	Examiner N	ame	Not Yet Assigned		
Total Number of Pages in This Submis	sion	Attorney Docket Number		^r 12810-00136-US		
EN	CLOSURES	(Check all	that appl	у)		
Fee Transmittal Form	Drawing(s)			After Allowance Communication to TC		
Fee Attached	Licensing-re	lated Papers		Appeal Communication to Board of Appeals and Interferences		
Amendment/Reply	Petition			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)		
After Final	Petition to C Provisional A			Proprietary Information		
Affidavits/declaration(s)		orney, Revocationespondence		Status Letter		
Extension of Time Request	Terminal Dis	sclaimer		Other Enclosure(s) (please Identify below):		
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Reply to Missing Parts/ Incomplete Application	Remarks					
Reply to Missing Parts under 37 CFR 1.52 or 1.53						
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Firm Name CONNOLLY BOVE	LODGE & HUT	Z LLP				
Signature						
Printed name Hui-Ju Wu						
Nov. 16, 2	2005		Reg. No.	57,209		



PTO/SB/08a/b (07-05)

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Complete if Known Substitute for form 1449A/B/PTO 10/552,127 Application Number INFORMATION DISCLOSURE Filing Date October 5, 2005 STATEMENT BY APPLICANT First Named Inventor Thomas, et al. Art Unit N/A (Use as many sheets as necessary) Examiner Name Not Yet Assigned Sheet of Attorney Docket Number 12810-00136-US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	AA*	US-5,614,393	03-25-1997	Thomas et al.		

		FOREIG	GN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	ВА	EP-0 550 162 A1	07-07-1993	Pioneer Hi-Bred International, Inc.		
	ВВ	EP-0 794 250 A1	09-10-1997	Soremartec S.A. & Ferrero S.p.A.		
	ВС	WO-00/21557	04-20-2000	Merck & Co., Inc.		Т
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	BG	WO-94/11516	05-26-1994	E. I. duPont de Nemours And Company		
	ВН	WO-94/18337	08-18-1994	Monsanto Company & Michigan State University		
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	BS	WO-02/090493	11-14-2002	Abbott Laboratories		Г
	ВТ	WO-02/26946	04-04-2002	Bioriginal Food & Science Corporation		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if passible § Applicants it as alone a pheal market has life as the patent document. The patent is instructed in the patent and the patent document. The patent is instructed in the patent and the patent document with the patent document. The patent is instructed in the patent and the patent and the patent document. The patent is instructed the patent and t possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sub	ostitute for form 1449A/B/PT	o		Complete if Known	
			Application Number	10/552,127	
11	INFORMATION DISCLOSURE		Filing Date	October 5, 2005	
S	STATEMENT BY APPLICANT		First Named Inventor	Thomas, et al.	
		Art Unit	N/A		
(Use as many she ets as necessary)		Examiner Name	Not Yet Assigned		
Sheet	2	of	2	Attorney Docket Number	12810-00136-US

		NON PATENT LITERATURE DOCUMENTS					
Examiner Cite Initials No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
	CA	Barsanti, L. et al., "Fatty Acid Content in Wild Type and WZSL Mutant of <i>Euglena gracilis</i> ", Journal of Applied Phycology, 2000, Vol. 12, pp. 515-520.					
	СВ	Horrocks, L. A. et al., "Health Benefits of Docosahexaenoic Acid (DHA)", Pharmacological Research, 1999, Vol. 40, No. 3, pp. 211-225.					
	CC	Huang, Y. S. et al., "Cloning of Δ12- and Δ6- Desaturases from <i>Mortierella alpina</i> and Recombinant Production of γ-Linolenic Acid in <i>Saccharomyces cerevisiae</i> ", Lipids, 1999, Vol. 34, No. 7, pp. 649-659.					
	CD	Hunter, J. E., "Studies on Effects of Dietary Fatty Acids as Related to Their Position on Triglycerides", Lipids, 2001, Vol. 36, No. 7, pp. 655-668.					
	CE	Alonso, D. L. et al., "Plants as 'chemical factories' for the Production of Polyunsaturated Fatty Acids", Biotechnology Advances, 2000, Vol. 18, pp. 481-497.					
	CF	McKeon, T. et al., "Stearoyl-Acyl Carrier Protein Desaturase from Safflower Seeds", Methods in Enzymology, 1981, Vol. 71, pp. 275-281.					
	CG	Meyer, A. et al., "Biosynthesis of Docosahexaenoic Acid in <i>Euglena gracilis</i> : Biochemical and Molecular Evidence for the Involvement of a Δ4-Fatty Acyl Group Desaturase", Biochemistry, 2003, Vol. 42, pp. 9779-9788.					
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	CI	Poulos, A. "Very Long Chain Fatty Acids in Higher Animals - A Review", Lipids, 1995, Vol. 30, No. 1, pp. 1-14.					
	CJ	Sakuradani, E. et al., "\(\Delta\)6-Fatty Acid Desaturase from an Arachidonic Acid-Producing Mortierella Fungus. Gene Cloning and its Heterologous Expression in a Fungus, Aspergillus", Gene, 1999, Vol. 238, pp. 445-453.					
	CK	Stukey, J. E. et al., "The <i>OLE1</i> Gene of <i>Saccharomyces cerevisiae</i> Encodes the Δ9 Fatty Acid Desaturase and Can Be Functionally Replaced by the Rat Stearoyl-CoA Desaturase Gene", The Journal of Biological Chemistry, 1990, Vol. 265, No. 33, pp. 20144-20149.					
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	СМ	Wada, H. et al., "Enhancement of Chilling Tolerance of a Cyanobacterium by Genetic Manipulation of Fatty Acid Desaturation", Nature, 1990, Vol. 347, pp. 200-203.					
	CN	Wallis, J. G. et al., "The Δ8-Desaturase of <i>Euglena gracilis</i> : An Alternate Pathway for Synthesis of 20-Carbon Polyunsaturated Fatty Acids", Archives of Biochemistry and Biophysics, 1999, Vol. 365, No. 2, pp. 307-316.					
	СО	Wang, X. et al., "Biosynthesis and Regulation of Linolenic Acid in Higher Plants", Plant Physiol. Biochem., 1988, Vol. 26, No. 6, pp. 777-792.					
	CP	Yu, R. et al., "Production of Eicosapentaenoic Acid by a Recombinant Marine Cyanobacterium, Synechococcus sp.", Lipids, 2000, Vol. 35, No. 10, pp. 1061-1064.					
	CQ	Zank, T. K. et al., "Cloning and Functional Characterisation of an Enzyme Involved in the Elongation of Δ6-Polyunsaturated Fatty Acids from the Moss <i>Physcomitrella patens</i> ", The Plant Journal, 2002, Vol. 31, No. 3, pp. 255-268.					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

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